Appl. No. 10/087,142 (Docket 093/005) Amdt. dated Nov. 15, 2005 Reply to Office Action of March 28, 2005

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

What is claimed as the invention is:

- 1. 12. (Canceled)
- 13. (Currently amended) A method for obtaining the hepatocyte lineage cells eell population of claim-1, comprising culturing the pPS cells in a growth environment that comprises one or more hepatocyte maturation factors that are either:
  - a) an organic solvent selected from dimethyl sulfoxide (DMSO), dimethylacetamide (DMA); hexmethylene bisacetamide, and other polymethylene bisacetamides; or
  - b) a cytokine or hormone selected from glucocorticoids, epidermal growth factor (EGF), insulin, TGF-α, TGF-β, fibroblast growth factor (FGF), hepatocyte growth factor (HGF), IL-1, IL-6, IGF-I, IGF-II, and HBGF-1.
- 14. 20. (Canceled)
- 21. (New) The method of claim 13, wherein the growth environment comprises DMSO.
- 22. (New) The method of claim 13, wherein the growth environment comprises a cytokine.
- (New) The method of claim 13, wherein the growth environment comprises HGF.
- 24. (New) The method of claim 13, wherein the growth environment comprises insulin.
- 25. (New) The method of claim 13, wherein the growth environment comprises FGF.
- 26. (New) The method of claim 13, wherein the growth environment comprises dimethylacetamide.
- 27. (New) The method of claim 13, wherein the growth environment comprises hexmethylene bisacetamide.
- 28. (New) The method of claim 13, wherein the growth environment comprises EGF.